
Scientific Notation

Remember to explain your thinking by showing working.

No Calculator

- Find the value of
(a) $1.36 + 1.7 \times 4$ (b) 2.61×300
- Work out
(a) 35×0.7 (b) $0.64 \div 0.04$
- The population of Brazil is approximately 201 million. The population is expected to grow by 4.5% this year. What is the new population expected to be? **Give your answer in scientific notation.**
- Work out
(a) $3.5 \times 10^7 \times 8 \times 10^{-2}$ (b) $8 \times 10^{-7} \div 2 \times 10^{-5}$

Calculator allowed

- In 1 gram of carbon there are 6×10^{26} atoms. How many carbon atoms are there in 5kg of pure carbon? **Give your answer in scientific notation.**
- There are 3.1×10^7 seconds in a solar year. How many seconds are there in 5 solar years? **Give your answer in scientific notation.**
- The lotto jackpot of $\text{£}8.4 \times 10^6$ was shared equally among 3 winners. How much did each winner receive? **Give your answer in scientific notation.**